ORIGINAL NEW APPLICATION



AZ CORP COMMISSION DOCKET CONTROL 1 Melissa M. Krueger Theresa Dwyer Pinnacle West Capital Corporation 2 400 North 5th Street, MS 8695 2819 JUL -1 P 2: 03 3 Phoenix, Arizona 85004 Tel: (602) 250-2439 4 Fax: (602) 250-3393 E-Mail: Melissa.Krueger@pinnaclewest.com 5 Theresa.Dwyer@pinnaclewest.com Attorneys for Arizona Public Service Company 6 E-01345A-19-0148 7 BEFORE THE ARIZONA CORPORATION COMMISSION 8 COMMISSIONERS Arizona Corporation Commission 9 DOCKETED BOB BURNS, Chairman 10 **BOYD DUNN** JUL 01 2019 SANDRA D. KENNEDY 11 JUSTIN OLSON DOCKETED BY LEA MARQUEZ PETERSON 12 13 IN THE MATTER OF THE APPLICATION DOCKET NO. E-01345A-19-OF ARIZONA PUBLIC SERVICE 14 COMPANY FOR APPROVAL OF ITS 2020 APPLICATION FOR APPROVAL RENEWABLE ENERGY STANDARD OF 2020 RENEWABLE ENERGY 15 IMPLEMENTATION PLAN FOR RESET STANDARD IMPLEMENTATION OF RENEWABLE ENERGY ADJUSTOR. PLAN 16 17 The attached 2020-2024 Renewable Energy Standard (RES) Implementation Plan 18 (2020 RES Plan or Plan) continues Arizona Public Service Company's (APS or 19 Company) commitment to the renewable energy targets established by the Arizona 20 Corporation Commission's (Commission) RES rules. APS submits its 2020 RES Plan 21 (attached as Exhibit A) under A.A.C. R14-2-1813 and in accordance with Staff's 22 standardized reporting format developed in Decision No. 72737 (Jan. 18, 2012). 23 APS's 2020 RES Plan requests funding for previously-authorized programs, 24 including legacy performance-based incentives, renewable purchase power costs and 25 ongoing program administrative costs, educational outreach, and administration of prior 26 initiatives currently being implemented. The Plan seeks the Commission's approval of a 27 total base RES budget of \$86.3 million for 2020, and the total request for the 2020-2024

Plan to be \$399.6 million, not including any funding offsets. After applying funding offsets, the total requested RES Surcharge Collection for 2020 is \$69.1 million.

The Plan includes the following:

- Summary information regarding the amount of renewable generation on APS's system and its progress towards compliance with the RES;
- A request for waiver under A.A.C. R14-2-1816 of the residential distributed energy requirement provided in A.A.C. R14-2-1805 to recognize the substantial amount of non-incented residential distributed energy on APS's system;
- A request to continue the Green Choice Rates as proposed in the 2019 RES
 Plan;
- Estimated budgets for 2020 through 2024; and
- A request for funds to support the limited- and moderate-income solar programs approved in APS's last rate case.¹

This Application briefly touches upon each of the foregoing.

I. PLAN HIGHLIGHTS

A. APS Requests a Waiver of the Residential Distributed Generation Requirement While Continuing to Exceed Overall Compliance with the RES.

APS's portfolio of Renewable Generation (RG) resources contains significant RG resources that serve the energy demands of all APS customers. The Renewable Energy Standard requires APS to obtain 10% percent of its retail sales with renewable energy resources by the end of 2020. APS anticipates that, given the amount of renewable energy already in its diverse resource portfolio and the current volume of interconnection applications for distributed generation, that approximately 15.6 percent of the Company's retail sales will be met by renewable resources by the end of 2019.

¹ See Decision No. 76295 (Aug. 18, 2017).

APS's targeted RG goal for 2020 is 2,461 GWh. APS is far ahead of compliance with the overall cumulative RES goal and is compliant with the non-residential distributed generation requirements through 2021. APS will not have enough Renewable Energy Credits to meet the residential distributed generation targets (DG carve out) contained in the RES for 2020.

APS therefore requests a full and permanent waiver of the DG carve out contained in A.A.C. R14-2-1805 for 2020. A.A.C. R14-2-1816 provides that "[t]he Commission may waive compliance with any provision of this Article for good cause." Good cause exists to waive the residential distributed energy requirements for 2020. First, a permanent waiver is the least costly way for APS to establish compliance with the residential distributed generation targets. Second, as documented in APS's most recent Renewable Energy Standard Compliance Report filed in March 2019, there continues to be a substantial and continuous amount of non-incented rooftop solar being installed in APS's service territory and the intent of the DG carve out is already being satisfied.

B. Increase Educational Outreach

Decision No. 71459 (Jan. 29, 2010) created the Arizona Goes Solar website. APS believes that analyzing and updating the website would be valuable and appropriate at this juncture, so that customers have accurate and up-to-date information on solar and other evolving distributed resource industries, as well as current market conditions. APS proposed in 2019 to continue funding RES education and outreach and update the website to make the platform current and more user-friendly. The website serves as a repository of relevant Arizona information for distributed generation resources for stakeholders and customers. APS will continue this work in 2020. In addition, APS will be providing education and outreach to solar customers in compliance with the Commission's decision in Docket No. E-01345A-19-0003.

C. APS Solar Communities

Under Decision No. 76295 (Aug. 18, 2017), APS continues to expand rooftop solar installations for limited- and moderate-income customers through Company-owned solar distributed generation program known as APS Solar Communities. As required, APS continues to invest between \$10 and \$15 million annually, allocating at least 65% of annual program expenditures to residential installations for limited- and moderate-income families. This Application requests \$4.6 million in 2020 for the revenue requirements associated with APS Solar Communities Program. The Program offers clean energy to limited- and moderate-income customers in single-family and multifamily housing, as well as non-profit commercial customers that serve limited-income populations, Title I Schools, and rural government customers.

II. APS'S PLAN PROPOSES A 2020 BUDGET AND RES ADJUSTOR TO SUPPORT EXISTING APPROVED PROJECTS AND COMMITMENTS.

As discussed previously, APS requires a total 2020 RES budget of approximately \$86.3 million, a decrease from the 2019 budget, even without any funding offsets. APS intends to apply several credits and revenue streams to lower total RES adjustor collections needed in 2020.

In addition, by the end of 2020, APS expects to have unallocated funds in the amount of \$20.6 million. APS proposes to use approximately \$10.3 million of these collected, but unallocated funds, to reduce its 2020 budget and apply the remaining \$10.3 million as an offset to the 2021 budget.

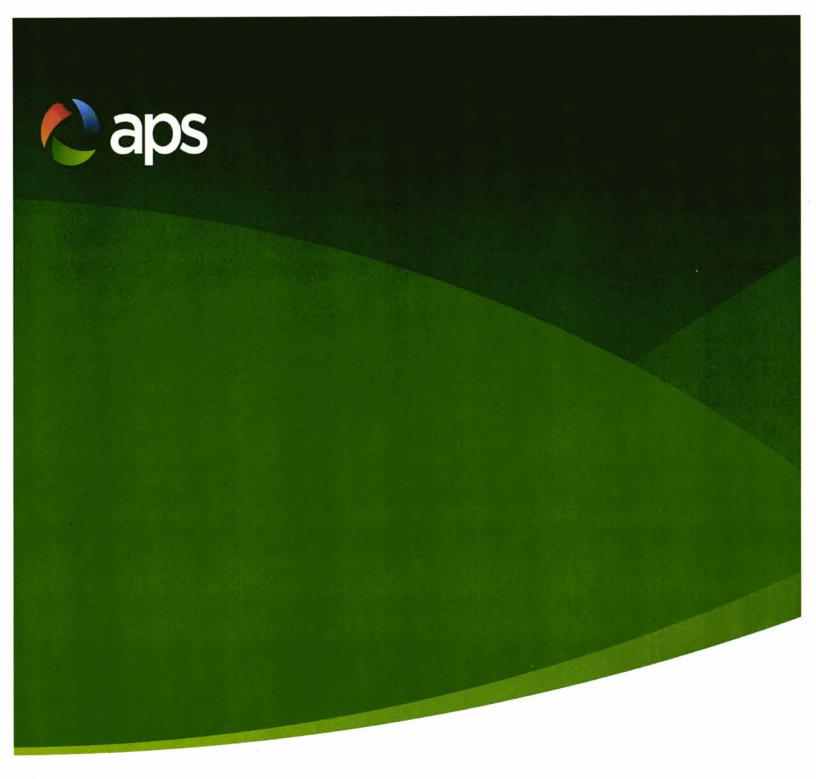
III. CONCLUSION

APS's 2020 RES Plan provides continued support and funding to enable APS to meet its obligations under the RES while moderating incremental rate impact. The Company respectfully requests that the Commission approve APS's 2020 RES Plan and budget as proposed.

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1	RESPECTFULLY SUBMITTED this day of July 2019.
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3	By: Munaw for M lunam The Melissa M. Krueger Theresa Dwyer
4	Theresa Dwyer Attorneys for Arizona Public Service Company
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6	ORIGINAL and thirteen (13) copies of the foregoing filed this day of July 2019 with:
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Exhibit A



Renewable Energy Standard Implementation Plan 2020-2024

July 1, 2019

Contents

i.	Executive Summary	i
Intr	oduction	
	. 2020-2024 RES Requirement	
I.	Renewable Generation	
A		
II.	Distributed Generation	
A	. APS Interconnection and Program Management	2
В	. Investment in AZ SUN II (APS Solar Communities)	2
C.	. Managing long-term PBI contracts and payments	3
D	. Residential DG	3
III.	Program Administration	4
Α.	. Distributed Energy Administration Plan (DEAP)	4
В.	. Educational outreach	4
C.	. Green Choice Program	4
IV.	Budget	4
Α.	. Reallocation of program funds	5

i. Executive Summary

Arizona Public Service Company (APS or Company) is required by the state's Renewable Energy Standard (RES) to achieve 10.0 percent of retail sales with renewable resources by year-end 2020, increasing annually to 14.0 percent in 2024. In the following 2020-2024 RES Implementation Plan (Plan), APS requests funding approval for existing program commitments and deployment of previously authorized programs. The Company expects to achieve compliance with the 2020 RES requirements provided all of the resources discussed herein are authorized and continued as previously-approved in prior Arizona Corporation Commission (Commission) decisions. As to the residential distributed generation (DG) target, APS requests a permanent waiver in lieu of compliance due to the continued steady levels of non-incented rooftop solar being installed in its service territory.

Renewable Generation. Renewable Generation (RG) resources within the APS portfolio are larger-scale renewable energy resources that serve the energy demand of all APS customers. APS's targeted RG resources for 2020 is 2,461 GWh.

Distributed Generation. As of December 31, 2018, there were a total of 90,055 residential and non-residential solar grid-tied DG systems, with associated capacity of 851 MW-AC. Of those systems, 22,365 were residential installations and 1,009 non-residential installations that received incentives to interconnect solar grid-tied DG systems, with associated capacity of 131 MW-AC and 187 MW-AC, respectively. Based upon these currently-installed resources, as well as commitments from previously-approved program budgets, APS projects it will be in compliance with non-residential energy targets until 2021 and residential DG energy targets through December 2017. APS is not requesting monies for new solar grid-tied DG resource incentives in the Plan because the DG market and interconnections remain robust.

The above DG forecast does not include RECs associated with non-incented installations. Through May 1, 2019, 71,249 residential solar grid-tied DG systems (501 MW-AC) and 592 non-residential solar grid-tied DG systems (52 MW-AC) have been installed across the APS service territory and interconnected to APS's grid without receiving incentives. Given the continued consistent levels of residential DG in APS's service territory, the Company requests a permanent waiver of the residential compliance requirement in 2020. APS continues to see high rates of solar DG interconnections without an incentive, but the DG compliance requirement only includes RECs associated with installations that received an incentive.

Budget. The requested budget for APS's 2020 Plan consists of funding for previously-authorized programs, including legacy Production-Based Incentive (PBI) subsidy payments, purchased power agreement (PPA) and revenue requirement costs, educational outreach, and administration of prior initiatives currently being implemented.

APS expects the total base budget for PBI and other DG legacy, PPA projects in 2020 to be \$86.3 million, and the total request for the 2020-2024 Plan years to be \$399.6 million, not including any funding offsets.

Introduction

In the 2020-2024 RES Implementation Plan, APS provides an update on authorized renewable energy programs, generation projects, and the Green Choice Program, as well as any related budget requirements.

A. 2020-2024 RES Requirement

The RES was established in August 2007, and requires APS to file a Plan each year for review and approval by the Commission.¹ The Plan describes the Company's strategy to meet the requirements of the RES for the next five calendar years, identifying the eligible technologies, the expected schedule for the resource incorporation on a year-by-year basis, and both the megawatts (MW) and megawatt hours (MWh) expected to be added to the APS portfolio by the incorporation of those resources.

APS has prepared this Plan for the five-year period 2020-2024 in compliance with the RES rules. The RES requires that affected utilities satisfy an annual renewable energy requirement by providing a percentage of their electric retail sales from renewable energy resources. The required percentage for the current implementation period begins at 10.0 percent in 2020 and increases to 14.0 percent in 2024. The RES requires that the minimum percentage be increased to 15.0 percent of the utility's total retail sales by the year 2025.

Per Decision No. 74882 (December 31, 2014), compliance with the DG rules may be met absent direct cash incentives. The Commission requires APS to include information in its Plan on the Company's compliance standing both with and without being able to record renewable energy installed independently by a customer without receiving a direct cash incentive (described herein as non-incented installations). Exhibits 2B and 2C identify distributed generation production under both scenarios requested by the Commission. Other energy exhibits in this Plan show existing and projected non-incented installations.

I. Renewable Generation

RG resources within the APS portfolio are larger-scale renewable energy resources that serve the energy demand of all APS customers. These resources are part of the Company's energy portfolio as provided to the Commission in the Company's 2017 Integrated Resource Plan—as such, they are applied to APS's overall RES requirements.² APS is required to include estimated pricing information related to RG projects. Consistent with prior Plans,

¹ A.A.C. R14-2-1801 et seq.

² Docket No. E-00000V-15-0094, filed in compliance with A.A.C. R14-2-703.

APS has included a redacted version of the information in Exhibits 3B and 3D and is providing un-redacted pricing information directly to Commission Staff.

A. Biomass

On May 9, 2019, APS filed a report summarizing the results of its evaluation of the feasibility and potential cost of converting a unit at the Cholla power plant to burn biomass. The report and other related documents can be viewed in Docket No. E-00000Q-17-0138. This information was also presented to the Commission at the May 21, 2019 Open Meeting. APS is not taking any further action at this time absent further direction from the Commission.

II. Distributed Generation

A. APS Interconnection and Program Management

Consistent with Commission direction on incentive-funding step downs and APS performance with the DG requirements; APS ceased offering direct-cash incentives for residential and non-residential solar DG grid-tied resources at the end of 2013. The Company continues to experience a steady application volume for non-incented residential DG grid-tied generating facilities during 2019.

With the consistent volume of interconnection requests comes steady activity in the areas of application review, meter installation, distributed energy resource (DER) planning, legacy program management and ongoing customer support. The RES budget request of \$8.8 million for distributed energy program administration and implementation reflects the need to be responsive to the robust market environment for solar and other DER technology adoption.

B. Investment in AZ SUN II (APS Solar Communities)

Per Decision No. 76295 (August 18, 2017) (Decision), the Commission approved APS to expand rooftop solar installations for limited- and moderate-income Arizonans. APS owns all of the generation under the program and all the renewable energy credits under the program. The Decision requires APS to invest between \$10 and \$15 million annually over three years (2018, 2019, 2020), allocating at least 65% of annual program expenditures to residential installations. APS seeks \$4.6 million in 2020 for the APS Solar Communities Program. This reflects the total program costs as approved in the Decision. The program is available to limited- and moderate-income customers in single-family and multi-family housing, as well as non-profit commercial customers that serve limited-income populations, Title I Schools, and rural government customers. APS is required to file a quarterly report on the progress of this program. APS's quarterly reports and related documents can be viewed in Docket Nos. E-01345A-16-0036 and E-01345A-16-0123.

C. Managing long-term PBI contracts and payments

From 2009 to 2013, APS was authorized to implement annual PBI programs for non-residential customers who deploy DG grid-tied resources at commercial sites. PBIs are paid on a cents/kWh basis for actual solar generation. These legacy PBI contracts represent long-term, ongoing RES budget commitments that are gradually paid to customers or third-party providers over the length of the contracts.

Exhibit 3C provides detail on this category of subsidy expenditures. APS has entered into long-term PBI contracts totaling \$633.4 million over the life of the RES. By the end of 2020, the Company will have paid approximately \$277.2 million cumulatively against the total. APS estimates that at the end of 2020, \$324.2 million in lifetime PBI payments will remain to be collected and paid for through future RES budgets, with \$32.0 million projected to be paid during 2020.

Exhibit 3C also includes the amortization of PBI commitments through ongoing incentive payments as well as the reduction in remaining PBI authorizations no longer needed to complete prior programs.

APS renewable energy program staff manage all of the associated PBI credit purchase contracts, assist customers with system modification and billing queries, support quarterly PBI payment processing and facilitate CPA assignments and contact or payee information changes. Ongoing PBI contract management is included in the RES budget request of \$8.8 million for DG program administration and implementation.

D. Residential DG

APS requests a permanent waiver of the residential DG carve-out requirement in 2020 due to continued high levels of residential DG being installed in its service territory without an incentive. Nonetheless, the Company expects to be more than 70% compliant with the 2020 incremental residential goal. APS projects it will be in compliance with incented non-residential energy targets until 2021 and incented residential DG energy targets through December 2017. Through May 1, 2019, 71,249 residential solar grid-tied DG systems (501 MW-AC) and 592 non-residential solar grid-tied DG systems (52 MW-AC) have been installed and interconnected without receiving incentives. APS continues to see consistently high rates of solar DG interconnections without an incentive; however, the DG compliance forecast only includes RECs associated with installations that received an incentive. By the end of 2019, cumulative DG capacity (all technologies) on the APS system will be at least 911 MW-AC, of which 553 MW-AC is non-incented DG interconnections.

III. Program Administration

A. Distributed Energy Administration Plan (DEAP)

The DEAP is a master program administration guideline that APS posts on its public website at aps.com/renewables. APS has made no changes to the DEAP that was approved in Decision No. 74237 on January 7, 2014.

B. Educational outreach

Decision No. 71459, paragraph 54 (January 29, 2010), created the Arizona Goes Solar website to help promote the availability of REST funds for residential solar projects, create additional awareness of incentives for residential and commercial solar projects, and provide a publicly accessible source for accurate solar market data. APS sees value in continuing to maintain the Arizona Goes Solar website, as the information provides ratepayers with accurate and up-to-date information on the solar and evolving DER industries. In 2019, the Arizona Goes Solar website is moving to a more secure and modern platform. The required content provided on the website will remain the same.

APS will comply with Commission decision resulting from Docket No. E-01345A-19-0003 regarding solar customer educational outreach.

C. Green Choice Program

APS proposed changes in its pending 2019 RES Implementation Plan to modify the Green Choice Program to increase customer participation by better meeting customer's preferences for resource type. The 2019 RES Implementation Plan application can be viewed in Docket No. E-01345A-18-0226. APS is not proposing any additional changes to the program at this time.

IV. Budget

The budget for APS's 2020 Plan consists of funding for previously authorized programs including PBI legacy payments, PPA and revenue requirement costs, and prior initiatives currently being implemented.

The total base RES budget in 2020 is \$86.3 million and the five-year total for the 2020-2024 Plan is projected to be \$399.6 million, not including any funding offsets.

APS intends to apply several credits and revenue streams to lower the total RES adjustor collections needed in 2020 and 2021. Offsets to the 2020 budget (see Exhibit 3A) include \$6.0 million from the System Benefit Charge included in base rates, rate program revenues, and general reallocation offsets due to variances in power purchase costs, programs

completed under budget, and cancelled projects. After applying these funding offsets, the total requested RES Surcharge Collection for 2020 is \$69.1 million.³

A. Reallocation of program funds

In prior RES plans, APS has applied a portion of the Company's unallocated program funds as a direct offset to a given year's budget to reduce the need for additional RES collections. By the end of 2020, APS expects to have estimated unallocated funds in the amount of \$20.6 million. APS proposes to use \$10.3 million of these collected but estimated unallocated funds in the 2020 budget and apply the remaining \$10.3 million as an offset to the 2021 budget.

³ See Exhibit 3A: 2020 RES IP Summary Budget.

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		2020	2021	2022	2023	2024
To your	APS Estimated Retail Sales	29,272,906	29,860,055	30,413,990	30,934,710	31,408,016
3 A	APS RES Target - % of Retail Sales	10.0%	11.0%	12.0%	13.0%	14 0%
4	APS Total RES Requirement	2,927,291	3.284.606	3.649.679	4.021.512	4 397 122
2						
9	RES Generation Target	2.049.103	2 299 224	2 554 775	2 815 050	3 077 086
				0	1000000	2001
8 Distributed	ted Energy % of RES Requirement	30%	30%	30%	30%	30%
iQ 6		878 187	985 382	1 004	1 206 454	1 210 137
<u>a</u>	Recidential Distributed Energy (50%)	730 007	102 504	100,100,1	CC CO2	מבול מבולים
	dential Distributed Eiler gy (30%)	100,001	160,264	264,146	003,227	890,600
-UON	Non-Residential Distributed Energy (40%)	351,274	394,153	437,962	482,582	527,655
	Wholesale Distributed Energy (10%) 1	87,819	98,538	109,490	120,645	131,914
14 Renewable Generation (MWh)						
15		2020	2021	2022	2023	2024
16	RES Generation Target	2.049.103	2.299.224	2 554 775	2 815 059	3 077 986
						2001
18 Existing/Planned	ed Generation Owned/Contracted	2,460,845	2.511.644	2.534.795	2.471.501	2.427.623
19 Energy Applied To/(Withd		411,741	212,418	(19,980)	(343,557)	(650.362)
	(line 18 - line 16)					
21 Customer Sited Distributed Energy	rgy (MWh)					
22		2020	2021	2022	2023	2024
23 RES	RES Distributed Energy Requirement	878,187	985,382	1,094,904	1,206,454	1,319,137
			- 100 A S A S A S A S A S A S A S A S A S A			
25 Estima	Estimated Existing Distributed Energy ²	833,392	827,790	834,009	836.714	845.162
Energy Applied To/(Withdra	Irawn From) APS Bank for RES	(44,795)	(157,592)	(260,894)	(369,740)	(473,975)
	(line 25 - line 23)					
	Non-Incented DE Installations	1,265,320	1,404,647	1,543,973	1,683,300	1,822,626
30 Total RES Energy (MWh)						
		2020	2021	2022	2023	2024
32	Total RES Requirement	2,927,291	3,284,606	3,649,679	4,021,512	4,397,122
	Total Ferond 200 Performed LetoT	בכני 100 כ	10000	400 000 0	110000	700 000 0
35	Total Expected RES Production	3,294,237	3,339,434	3,368,804	3,308,215	3,272,785
36 Energy Applied To/(Withdra	frawn From) APS Bank for RFS	366 947	54 878	(380 975)	(713 307)	(44 474 237)
15		11000	200	(0.0000)	(167/677)	(10012717)
38	Non-Incented DE Installations	1.265,320	1,404,647	1 543 973	1 683 300	1 822 626
39 APS RES Budget Summary (\$ M's)						0.0(2.0)
40	The second secon	2020	2021	2022	2023	2024
	Total Renewable Generation	\$ 40.8	\$ 41.4	\$ 42.1	\$ 29.7	\$ 28.4
42	Total Distributed Energy	45.4	43.5	43.1	42.5	42.4
43	Base RES Program Budget	\$ 86.3	\$ 84.9	\$ 85.2	\$ 72.3	\$ 70.9
44	Base Rates	(0.9)	(09)	(9)		
	Estimated Green Choice Revenue Credit		(6.0)	(6:0)		600
46.	Estimated Unallocated Funds	(10.3)	(10.3)		()	
	RFC Adjustor Collection 3	4 601	67.0	707		4
	ALS AUJUSTOI COILECTION		0./0		4.00	

Notes: 1 Per AAC R14-2-1805.

² Does not include non-incentive installations from residential and non-residential energy resources, which do not count toward compliance. Non-incentive installations are defined as installations made by customers without taking a direct cash incentive and without transferring REC ownership to APS.
³ See Exhibit 1B for RES Adjustor Schedule.

Exhibit 1B: RES Adjustor Schedule

	Residential	XS Commercial (<20 kW)	Small Commercial (20-100kW)	Medium Commercial (100-400 kW)	Large Commercial (400-3,000 kW)	Industrial (>3,000 kW)
			\$0.006367/kWh	67/kWh		
2020 Charge/Cap (Non-DG Customers)	\$2.55	894	\$94.59	\$159.18	\$318.35	\$2,069.28
2020 Average (DG Customers)	\$2.22	Cap: \$94.59 Floor: \$5.32	Cap: \$94.59 Floor: \$26.58	\$140.28	\$297.25	\$2,069.28

2020 2021 2022 Total HWac 2022 2022 4.5 10,088 10,001 9,951 15 38,548 38,209 37,224 15 39,589 38,209 37,224 16 39,589 38,201 38,927 17 39,589 39,201 38,927 18 39,589 39,201 38,927 19 44,130 44,814 44,814 10 44,389 44,814 44,814 10 39,301 38,875 44,814 11 44,816 44,814 44,814 46 44,339 44,814 44,814 46 44,359 44,814 44,814 46 44,354 44,814 44,814 46 44,354 44,814 44,814 46 46 44,357 44,814 46 46 44,357 44,814 46 46 44,357 44,814	2020 2021 2022 2022 2008 10,001 9,951 24,523 38,245 38,249 37,926 40,966 40,966 41,170 41,170 40,965 39,700 41,170 40,965 39,700 41,170 41,170 40,965 39,700 41,170	2020 2021 2022 2023 2023 20 25,088 24,770 24,523 24,277 24
28 27 7	9,951 24,523 3,926 40,966 40,966 32,624 944,838 38,875 43,578 44,814 107,636 44,814 104,688 33,747 34,409 226,580 226,580 226,416 65,817 103,219 22,535 1,354,798 2,534,798 2,534,798 2,534,798 2,534,798 1,344,999 22,560 2,560 2,577 1,344,967 1,344,967 1,344,967 1,344,144,1933 1,4,983 1,9,490	9,951 9,902 24,523 3,564 4 70,966 40,761 32,664 40,761 32,664 40,761 38,875 38,684 43,389 88,875 38,684 43,369 44,814 40,4814 40,4814 40,4914 43,915 44,814 40,992 226,416 226,817 65,817 12,302 12,302 12,302 12,302 12,303 12,303 12,303 12,303 12,303 12,303 12,303 12,303 11,339 11,33
2022 9,951 24,523 37,926 40,966 844,838 38,75 43,578 44,814 107,636 44,1814 107,636 44,1814 104,638 34,409 34,409 226,416 65,817 103,219 22,560 22,560 22,560 22,560 22,560 22,560 22,560 22,560 22,560 22,560 23,37 24,409 26,681 27,399 27,399 27,399 27,399 27,399 27,399 27,399 27,399 27,399 27,302 1,374,795 103,219 27,302 1,676,747 40,450 17,383 11,392 11,393 11,3	24	2023 22 9,902 24,777 3,644 40,764 40,764 40,764 43,363 86,814 43,360 104,164 33,578 43,915 104,164 34,237 85,778 85,778 85,778 85,778 85,778 85,778 85,778 15,809 226,529 226,416 65,817 44,335 226,416 65,817 44,335 226,416 65,817 44,335 15,878 15,878 15,878 15,878 15,878 17,90,235 16,4851 74,241 17,739 11,739 11,739 11,739 11,739 11,739 120,645
	9,902 24,277 37,644 40,761 31,653 844,838 38,654 38,654 44,590 104,164 114,226 1,790,235 1,468,336 11,363 11,363 11,363 11,363 11,363 11,363 11,363 11,363	7 T

All utility-owned Third Party projects are developed through a competitive RFP process, and all DE systems are built independently by Third Party developers and installers. P Reported as incremental production (non-annualized).

Reported as incremental production.

Reported sa incremental production.

Non-incentive installations are defined as installations made by customers without taking a direct cash incentive and without transferring REC ownership to APS.

Section (Glendale Landfill) contract terminated as of June 30, 2019

Exhibit 2B: Distributed Energy Compliance Table (MWh) 1

towards its RES compliance reporting. The non-incented installations shown below represents forecasted compliance position would be if the Company were allowed to count independent, customer installations This exhibit represents forecasted 2020-2024 RES DE compliance totals compared to what APS's DE customer growth absent any new incentive program funding for 2020-2024.

Line							Line
2		2020	2021	2022	2023	2024	No.
-	Residential DE (MWh)						-
2							7
ю	Residential (incented/owned) 2	322,225	322,048	321,780	321,299	320,479	m
4	Non-incented Installations 3	1,127,030	1,240,999	1,354,967	1,468,936	1,582,904	4
2	Total	1,449,255	1,563,046	1,676,747	1,790,235	1,903,383	2
9							9
7	Non-Residential DE (MWh)				- 11	A STATE OF	7
8							8
6	Non-Residential (incented/owned) 4	511,168	505,743	512,229	515,415	524,683	6
10	Non-incented Installations 3	138,290	163,648	189,006	214,364	239,722	10
11	Total	649,458	669,391	701,235	729,779	764,405	11
12							12
13	Total DE (MWh)					W. T. P. L. S.	13
14							14
15	Residential & Non-Residential (incented/owned)	. 833,392	827,790	834,009	836,714	845,162	15
16	Non-incented Installations 3	1,265,320	1,404,647	1,543,973	1,683,300	1,822,626	16
17	Total	2,098,713	2,232,437	2,377,983	2,520,014	2,667,788	17
18							18
19	RES DE Requirements (MWh)						19
20	Total DE Requirements	878,187	985,382	1,094,904	1,206,454	1,319,137	20
21	Residential Requirements	439,094	492,691	547,452	603,227	895'659	21
22	Non-Residential Requirements	439,094	492,691	547,452	603,227	895'659	22

Notes:

- 1 If APS were allowed to count non-incented installations towards its RES DE compliance requirements, APS anticipates total installations projected to be installed though 2020 would:
 - 1) advance residential compliance from 2017 to 2025,
- advance non-residential compliance from 2021 to 2023, and
 advance overall DE compliance from 2017 to 2023.

If APS were allowed to count non-incented installations towards its RES DE compliance requirements, APS anticipates total installations projected to be installed though 2024 would:

- 1) advance residential compliance from 2017 to 2025,
- 2) advance non-residential compliance from 2021 to 2025, and
- 3) advance overall DE compliance from 2017 to 2025.

² Includes UFI DE, Flagstaff Community Power Project, APS Solar Partner Program, and APS Solar Communities Program.

Non-incented installations defined as installs made by customers without taking a direct cash incentive and without transferring REC ownership to APS.

⁴ Includes UFI, PBI, Flagstaff Community Power Project, APS Solar Communities Program, and Wholesale DE programs.

DE Requirement

DE with non-incented

Exhibit 2C: Distributed Energy Compliance Graph

2,900,000 2,800,000 2,700,000 2,600,000 2,500,000 2,400,000 2,300,000 2,200,000 2,100,000 2,000,000 1,900,000 1,800,000 1,700,000 1,600,000 1,500,000 1,400,000 1,300,000

MWh

installations

2020 RES Implementation Plan Exhibit 2C

2024

2023

2022

Forecast 1,319,137

1,206,454

Forecast 1,094,904

Forecast

Forecast 985,382

Forecast

DE Requirement (MWh): 878,187

2021

2020

non-incented installations

DE without

800,000

1,100,000 1,000,000 900,000

1,200,000

700,000

500,000

400,000

000'009

300,000

100,000

Customer Sited Distributed Energy Customer Sited Distributed Energy Existing Contracts and Commitments Customer Sited Distributed Energy Existing Contracts and Commitments Schools and Government Program Incentives Schools and Government Program Incentives Schools and Government Program Incentives Apple Solar Commitments Administration Implementation Implementation Schools and Government Program Incentives Administration Implementation Fig. 8 F	ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν ν	40.5 \$ 40.5 \$ 42.1 \$ \$ \$ 42.1 \$ \$ \$ 42.1 \$ \$ \$ \$ \$ 42.1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	28.1 0.7 0.9 29.7 29.7 5.0 17.4 7.2 4.1		26.9 0.7 0.7 28.4 28.4 28.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	\$ 174.7 \$ 3.5 \$ 4.3 \$ 182.5 \$ 24.4 \$ 91.5 \$ 36.1 \$ 173.0	55 5 4 4 2 2 2 2 3 3 5 5 5 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Customer Sited Distributed Energy Total Renewable Generation Solution	**************************************	5 W 2504 5 W 2504	28.1 0.7 0.9 29.7 29.7 5.0 17.4 7.2 4.1				
Customer Sited Distributed Energy Customer Sited Distributed Energy Existing Contracts and Commitments Applead Existing Contracts and Commitments Foral Existing Contracts and Commitments Administration Mon-Energy Distributed Energy Costs Educational Outreach Educational Outreach Existing Contracts and Commitments Existing Contracts Existing Cont	**************************************	- N 250	28.1 0.7 0.9 29.7 29.7 5.0 17.4 7.2 4.1 33.7				
Administration \$ 0.7 \$ 0.7 Implementation \$ 0.9 \$ 0.9 Total Renewable Generation \$ 40.8 \$ 41.4 Customer Sited Distributed Energy Existing Contracts and Commitments \$ 40.8 \$ 41.4 Production-based Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ \$ 4.6 \$ 4.2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE RFP APS Solar Communities (AZ Sun II) \$ \$ 4.6 \$ 4.2 Administration \$ 5.0.7 \$ 0.7 Educational Outreach \$ 5.0.5 \$ 0.5 Educational Outreach \$ 5.0.5 \$ 0.5	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	AN ORDER	0.7 29.7 29.7 5.0 17.4 7.2 4.1 33.7			A A	
Total Renewable Generation \$ 0.9 \$ 0.9 Customer Sited Distributed Energy Existing Contracts and Commitments DE RFP Production-based Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ 4.6 \$ 44.8 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 7.5 \$ 7.5 Educational Outreach \$ 0.7 \$ 0.7 Total DE RFP FOURTH FORM THE STRIP ST	w w w w w	250	5.0 5.0 17.4 7.2 4.1 33.7			A A	
Customer Sited Distributed Energy Existing Contracts and Commitments DE RFP Production-based Incentives \$ 4.6 \$ 4.8 Schools and Government Program Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ 4.6 \$ 4.6 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 7.5 \$ 7.5 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8	λ		5.0 17.4 7.2 4.1 33.7			3	
Customer Sited Distributed Energy Existing Contracts and Commitments DE RFP DE RFP Production-based Incentives Schools and Government Program Incentives APS Solar Communities (AZ Sun II) Total Existing Contracts and Commitments Non-Energy Distributed Energy Costs Administration Implementation \$ 0.7 \$ 0.7 Implementation \$ 0.7 \$ 0.7 Educational Outreach Total DE Costs \$ 8.8 \$ 8.8	φ φ φ φ φ	100 H 100 A100	5.0 17.4 7.2 4.1 33.7	20/10/10/20 22/10		13	
Customer Sited Distributed Energy Existing Contracts and Commitments DE RFP Production-based Incentives \$ 4.6 \$ 4.8 Production-based Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ \$ 4.6 \$ 4.2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 8.8 \$ 8.88	Ψ φ φ φ φ	100 8 8 800	5.0 17.4 7.2 4.1 33.7	757274873754 7/4 0 •		7	
Existing Contracts and Commitments DE RFP Production-based Incentives Schools and Government Program Incentives APS Solar Communities (AZ Sun II) Total Existing Contracts and Commitments Non-Energy Distributed Energy Costs Administration Implementation Solar Commitments Solar Commitments Total Existing Contracts and Commitments Solar Commitm	[™]	50 8 8 50	5.0 17.4 7.2 4.1 33.7	SOUTHWARE DATE.	- A0 A SEQ. DX TO ANY 1903		
Existing Contracts and Commitments DE RFP DE RFP Production-based Incentives \$ 4.6 \$ 4.8 Production-based Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ 4.6 \$ 4.2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8	φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ φ	10 H H 41M	5.0 17.4 7.2 4.1 33.7	materials at the		3	
DE RFP \$ 4.6 \$ 4.8	м м м м м м м м м м м м м м м м м м м	20 20 20 20 20 20 20 20 20 20 20 20 20 2	5.0 17.4 7.2 4.1 33.7	ENDERONE VALOR	AND ASSESSMENT OF THE PARTY OF	7	
Production-based Incentives \$ 20.1 \$ 18.5 Schools and Government Program Incentives \$ 7.2 \$ 7.2 APS Solar Communities (AZ Sun II) \$ \$ 4.6 \$ 4.2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.5 \$ 0.5 Educational Outreach \$ 8.8 \$ \$ 8.8	φ φ φ φ	N 84 184 1859	17.4 7.2 4.1 33.7	composit value	ASSESSMENT OF STREET	4	
Schools and Government Program Incentives 1 APS Solar Communities (AZ Sun II) 2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8 \$ 8.88	φ ν	50 5000	7.2 4.1 33.7	558 221 N		7	
APS Solar Communities (AZ Sun II) 2 \$ 4.6 \$ 4.2 Total Existing Contracts and Commitments \$ 36.6 \$ 34.7 Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8	M M	200	33.7			4	
Total Existing Contracts and Commitments		20	33.7			7	
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Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Information Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 Total DE Costs \$ 8.8 \$ 8.8				A			
Non-Energy Distributed Energy Costs Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Information Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 Total DE Costs \$ 8.8 \$ 8.8							16
Administration \$ 0.7 \$ 0.7 Implementation \$ 7.5 \$ 7.5 Information Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 Total DE Costs \$ 8.8 \$ 8.8							18
Implementation \$ 7.5 \$ 7.5 Information Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8 \$ 8.8	₩.	0.7 \$	0.7	₩.			5 19
Information Technology \$ 0.5 \$ 0.5 Educational Outreach \$ 0.1 $$$ 0.1 Total DE Costs \$ 8.8 \$ 8.8	₩.	7.5 \$	7.5	₩.	7.5	37.4	
Educational Outreach \$ 0.1 \$ 0.1 Total DE Costs \$ 8.8 \$ 8.8	\$	0.5 \$	0.5	₩.	-	5 2.5	5 21
Total DE Costs \$ 8.8 \$ 8.8	\$	0.1 \$	0.1	\$	0.1		5 22
		8.8	8.8	4	8.8	\$ 44.1	
Total Customer Sited DE (Inne 15 + Inne 23) \$ 45.4 \$ 43.5 \$	44	43.1 \$	42.5	44	42.4	\$ 217.0	
Total RES Budget (line 6 + line 25) \$ 86.3 \$ 84.9 \$	•	85.2 \$	72.3	5	70.9	399.6	
A STATE OF THE STA			1 11 11		н		28
30 Base Rates \$ (6.0) \$ (6.0) \$	\$	\$ (0.9	(0.9)	₩	(0.9)	(30.0)	
(0.9)		(6.0)	(6.0)		(6.0)	- NE	
49	45	78.4 \$	65.4	4	64.0	۳	4

Notes:

¹ Third-party owned portion of the current 2011, 2012, and expanded Schools and Government Programs. ² Reflects total program costs as approved in Decision No. 76295.

Exhibit 3B: Targeted RES Resource Costs (in \$Ms)

Solar:	ï	Ownership					Proje	COMPETITIVELY CONFIDENTIAL Projected RES Cost per Year	Y CONF	IDENTI/ er Year	ا ي				
Solar: Stolar: Stola	Targeted Generation Resources:			2020		2021		2022		2023		2024	_	Fotal	Line No.
Apol and party ppa A Bacger and party ppa A Bacger and party ppa Bacger and party ppa A Bacger and party ppa Barty ppa Ba	Solar:												_		١.,
Prescott 3rd Pearty PPA August Badger 3rd Pearty PPA August Badger 3rd Pearty PPA Badger 3rd Pearty PPA 3rd Pearty PPA Badger 3rd Pearty 3rd Peart	Ajo	3rd Party PPA											₩	2.2	2
Badoger 31d Party PPA 1.3 1.	Prescott	3rd Party PPA												4.3	m
31	Badger	3rd Party PPA												9.0	4
Wind: 3rd Party PPA 130.1 Wind: Wind: 130.1 Wind: 130 Party PPA 133.8 Neemal: 3rd Party PPA 13.8 Sicans: 3rd Party PPA 5.3 Sicans: 3rd Party PPA 5.3 Sicans: 3rd Party PPA 13.4 Seration 3rd Party PPA 13.4 Resources: 4re \$ 4.0 \$ 174.7 Resources: 4re \$ 4.1 \$ 17.7 Resources: 4re \$ 4.5 4r.1 \$ 17.7 Silations: 4re \$ 4.5 4r.1 \$ 17.7 Silations: 3r.2 3r.2 3r.2 Owned) Customer-Sited DE 7.2 7.2 7.2 Silations: 3r.2 3r.2 3r.2 3r.2 Silations: 3r.2 3r.2 3r.2 3r.2 Silatio	Gillespie	3rd Party PPA												1.3	ur
Wind: Wind: Wind: 130.1 Wind: Wind: Wind: 13.8 Wind: Wind: 13.8 13.8 Incernal: 3rd Party PPA 5.3 incernal: 3rd Party PPA 5.3 Blogas: 3rd Party PPA 2.7 Singles: 3rd Party PPA 13.4 Landfill) 3rd Party PPA 13.4 Landfill) 3rd Party PPA 13.4 Resources: 3gram: 4.6 4.1 4.1 4.1 4.1 Resources: Apps: 4.6 4.2 4.1 4.1 4.0 5 21.0 Breation: Apps: 4.6 4.2 4.1 4.1 4.0 5 21.0 Guillations: Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Owned) Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Vocats (line 27: line 32) 3.4.7 <th< td=""><td>Saddle Mountain</td><td>3rd Party PPA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.0</td><td>9 16</td></th<>	Saddle Mountain	3rd Party PPA												0.0	9 16
Wind: Wind: Wind: 13.8 ne Nesa 3rd Party PPA 5.3 ne Recone 3rd Party PPA 5.3 set Turbo 3rd Party PPA 2.7 standfill Gas 3rd Party PPA 13.4 ddfill Gas 3rd Party PPA 13.4 All Gasty PPA 4.0 F \$ 4.2 \$ 4.1 \$ 4.1 \$ 1.7.7 Resources: App \$ 4.5 \$ 4.5 \$ 4.1 \$ 4.1 \$ 4.0 \$ 5.1.7 DE RFP Customer-Sited DE Street DE Street DE App \$ 4.8 \$ 7.2	Solana CSP	3rd Party PPA												130.1	7
Wind: Wind: Wind: Wind: 13.8 ne Messa 3rd Party PPA 3rd Party PPA 5.3 sermal: 2r Turbo 3rd Party PPA 2.7 stogas: 3rd Party PPA 2.7 stownlikes 3rd Party PPA 2.7 tandfill Gas 3rd Party PPA 4.3 tandfill Gas 3rd Party PPA 4.0 tandfill Gas 3rd Party PPA 4.0 tandfill Gas 3rd Party PPA 4.0 tandfill Gas 4.0 4.0 tandfill Gas 4.0 4.1 tandfill Gas 4.6 4.2 4.1 4.1 tandfill Gas 4.6 4.5 4.1 4.1 4.0															00
13.8 13.8	Wind:														σ
Single S	Aragonne Mesa	3rd Party PPA												13.8	10
Fermal: 3rd Party PPA 2.7	High Lonesome	3rd Party PPA												ř	111
Stock Stoc	Perrin Ranch	3rd Party PPA												5.3	12
State Stat															13
31.4 32.7 32.3 \$ 39.3	Geothermal:														14
39.09as; 310 Party PPA 13.4 1	Salton Sea/CE Turbo	3rd Party PPA												27	
31.4 31.5 31.5														,	1, 1,
13.4 13.4	Biomass/Biogas:														17
Landfill) 3rd Party PPA 3rd Pa	Snowflake	3rd Party PPA												13.4	18
Sand Party PPA \$ 39.3 \$ 39.9 \$ 40.5 \$ 28.1 \$ 26.9 \$ 174.7	Sexton (Glendale Landfill)	3rd Party PPA												,	19
reation \$ 39.3 \$ 39.9 \$ 40.5 \$ 28.1 \$ 26.9 \$ 174.7 Resources: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.0 \$ 21.0 Permitters APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.0 \$ 21.0 Iential: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.0 \$ 21.0 Indiations Customer-Sited DE \$ 20.1 \$ 4.8 \$ 5.0 \$ 5.1 \$ 24.4 Owned) Customer-Sited DE \$ 2.2 7	Northwest Regional Landfill Gas	3rd Party PPA												0.1	20
Resources: \$ 39.3 \$ 39.9 \$ 40.5 \$ 28.1 \$ 26.9 \$ 174.7 Paration unities: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.1 \$ 4.0 \$ \$ 21.0 Hential: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.1 \$ 4.0 \$ \$ 21.0 Hential: Customer-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 Owned) Customer-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 Energy (line 27 : line 32) \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0 V Costs (line 22 + line 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 61.9 \$ 60.5 \$ 347.7															21
Resources: nunities ² APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.0 \$ 21.0 lential: Loustonner-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 DE RPP Custonner-Sited DE \$ 20.1 \$ 4.8 4.8 5.0 5.1 24.4 Owned) Custonner-Sited DE 7.2 7.2 7.2 7.2 7.2 36.1 Energy (Iline 27: Iline 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0 V Costs (Iline 22 + line 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 61.9 \$ 60.5 \$ 347.7	Subtotal Targeted Generation		15	39.3	\$	39.9	15	40.5	*			6.92	101	174.7	22
Ogram: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.1 \$ 4.0 \$ 21.0 dential: allations Customer-Sited DE \$ 20.1 \$ 4.8 \$ 4.8 \$ 5.0 \$ 5.1 \$ 18.5 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 Owned) Customer-Sited DE 7.2 \$		es:													24
dential: APS \$ 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.1 \$ 4.0 \$ \$ 21.0 dential: dential: 4.6 \$ 4.2 \$ 4.1 \$ 4.1 \$ 4.0 \$ \$ 21.0 dential: dential: 4.6 \$ 4.8 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 4.8 \$ 5.0 4.6 \$ 5.1 4.4 \$ 5.0 4.4 \$ 5.1 4.4 \$ 5.0 4.4 \$ 5.1	AZ Sun II Program:														25
dential: Customer-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 DE RPP Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Owned) Customer-Sited DE 7.2 7.2 7.2 7.2 7.2 36.1 Energy (Ilne 27: Ilne 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 173.0 V Costs (Ilne 22 + Ilne 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 60.5 \$ 347.7	APS Solar Communities ²	APS	49	4.6	\$	4.2	49	4.1	49		4	4.0	¥	21.0	27
dential: Customer-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ 91.5 allations Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Owned) Customer-Sited DE 7.2 7.2 7.2 7.2 36.1 Energy (Ilne 27: Ilne 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 173.0 V Costs (Ilne 22 + Ilne 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 60.5 \$ 347.7			6		e	l							,		28
DE RFP Customer-Sited DE \$ 20.1 \$ 18.5 \$ 18.2 \$ 17.4 \$ 17.3 \$ \$ 91.5 DE RFP Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Owned) Customer-Sited DE 7.2 7.2 7.2 7.2 7.2 36.1 Energy (line 27: line 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0	Non-Residential:														53
DE RFP Customer-Sited DE 4.6 4.8 4.8 5.0 5.1 24.4 Owned) Customer-Sited DE 7.2 7.2 7.2 7.2 36.1 Energy (line 27 : line 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0	PBI Installations	Customer-Sited DE	44	20.1	\$	18.5	4	18.2	\$	17.4	4	17.3	4	91.5	30
Owned) Customer-Sited DE 7.2 7.2 7.2 7.2 36.1 Energy (Ilne 27 : Ilne 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 173.0 V Costs (Ilne 22 + Ilne 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 60.5 \$ 347.7	DE RFP	Customer-Sited DE		4.6		4.8		4.8		5.0		5.1		24.4	31
Energy (line 27: line 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0		Customer-Sited DE		7.2		7.2		7.2		7.2		7.2		36.1	32
Energy (line 27 : line 32) \$ 36.6 \$ 34.7 \$ 34.3 \$ 33.7 \$ 33.6 \$ 173.0													3	OT THE PARTY OF TH	33
(line 22 + line 34) \$ 75.9 \$ 74.6 \$ 74.9 \$ 61.9 \$ 60.5 \$ 347.7		(line 27 : line 32)	9	36.6	4	34.7	S	34.3	U	33.7		33.6	*	173.0	34
	Total Targeted Energy Costs	(line 22 + line 34)	\$	75.9	•	74.6	•	74.9				5 05	v	347 7	36

Notes:

Reducted due to the competitively confidential nature of the information.

Reflects total program costs as approved in Decision No. 76295.

Exhibit 3C: Lifetime Authorization Production Based Incentive status (\$M)

MA				
10.				No.
-			PBI Lifetime Authorization:	1
2	Year	Authorization Description	Description	2
т	20081,2 \$	250.0	DE RFP Lifetime Budget	m
4	20093	220.0	Standard PBI Lifetime Budget	4
2	20104	100.0	Standard PBI Lifetime Budget	2
9	20115	100.0	Standard PBI Lifetime Budget (\$73M), School and Government PBI (\$27M)	9
7	2012 ⁶	95.8	Standard PBI Lifetime Budget (\$30M), School and Government PBI (\$65.8M)	7
8	20137	0.9	Expanded School and Government PBI	80
6	₩.	771.8	APS's Approved Lifetime PBI Authorization	6
10				10
11	Retirement o	Retirement of Authorizations from Completed Programs:	ompleted Programs:	11
12	\$	(98.8)	(98.8) DE RFP ⁸	12
13		(41.2)	(41.2) Standard PBI (2009 - 2012)	13
4		(26.2)	(26.2) School & Government PBI (2011-2012)	14
15		27.8	27.8 Retained for Expanded School and Government PBI9	15
16	*	633.4	633.4 Total Remaining Lifetime PBI Authorization	16

日本は一日本日というないのかになって		PBI	Am	ortization Sci	hedule						17
		2020		2021		2022		2023		2024	18
Total PBI Commitment	₩.	633.4	\$	633.4	₩.	633.4	₩	633.4	₩	633.4	15
Cumulative PBI Incentive Payments		277.2		309.2		339.7		369.9		399.6	20
Annual PBI Payment (Projected)		32.0		30.5		30.2		29.7		29.7	21
Remaining PBI Commitment	\$	324.2	49	293.7	₩	263.5	₩	233.8	₩.	204.1	22

Notes:

Pursuant to Decision No. 71459, APS was authorized a total lifetime PBI Budget Authorization cap of \$250 million for the DE RFP.

Pursuant to Decision No. 72022, APS was authorized to commit \$25 million of its DE RFP authorization to the Innovative Technologies Program.

Pursuant to Decision No. 71254, the total lifetime PBI budget through and including 2009 is \$220 million of total contract commitments.

Pursuant to Decision No. 71459, APS was authorized an additional \$100 million per year lifetime commitment authorization.

Pursuant to Decision Nos. 72022 and 72174, in 2011, APS committed \$27 million of its Lifetime PBI Budget Authorization towards the

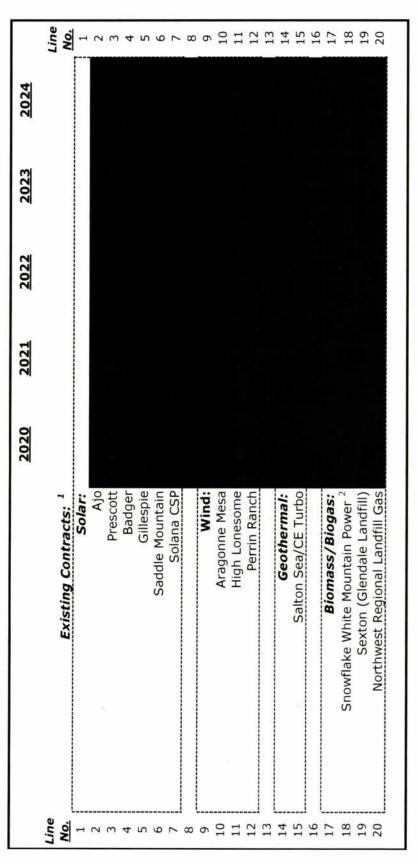
Pursuant to Decision No. 72737, \$30 million allocated to non-residential PBI and \$65.8 million to 2012 S&G. Schools and Government program.

Pursuant to Decision No. 73636, ACC authorized \$6M in new PBI program funds and a shift in \$23.5M of unallocated DE RFP funds to support anticipated 2012 S&G program needs.

Includes \$25M previously allocated to Innovative Technologies and \$49.9M in project commitment reduction due to cancellation of a portion of the DE RFP program.

⁹ Additional lifetime PBI authorization to complete program approved pursuant to Decision No. 72737.

Exhibit 3D: Third Party APS IP Renewable Generation RES Costs (\$/MWh)



Notes:

¹ Redacted due to the competitively confidential nature of the information.

² This project is split between Renewable Generation (RG) and Distributed Energy (DE).